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# FIGURE 1A

CHIR 12.12 light chain:

leader:

MALPAOLLGLLMLWVSGSSG

variable:

DIVMTQSPLSLTVTPGEPASISCRSSQSLLYSNGYNYLDWYLQKPGQSPQVLISLGS NRASGVPDRFSGSGSGTDFTLKISRVEAEDVGVYYCMQARQTPFTFGPGTKVDIR

constant:

RTVAAPSVFIFPPSDEQLKSGTASVVCLLNNFYFREAKVQWKVDNALQSGNSQESVT EQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSFVTKSFNRGEC

# FIGURE 1B

#### CHIR-12.12 heavy chain:

leader:

MEFGLSWVFLVAILRGVQC

variable:

QVQLVESGGGVVQPGRSLRLSCAASGFTFSSYGMHWVRQAPGKGLEWVAVISYEESN RYHADSVKGRFTISRDNSKITLYLQMNSLRTEDTAVYYCARDGGIAAPGPDYWGQGT LVTV88

#### constant:

ASTKGPSVFPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVI QSSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKBNWYVDGVEVHNAK TKPRESQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPFVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

#### alternative constant region:

ABTKGP8VPPLAPSSKSTSGGTAALGCLVKDYPPEPVTVSWNSGALTSGVHTPPAVL QSSGLYSLSSVVTVPSSELGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PBLLGGP8VPLPPPRPKDTLHISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPRREQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNQVSLTCLVKGPYPSDIAVEWESNGQPENNYKTTPPVLDSDG SPFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPQK 2/9

# **FIGURE 2A**

DNA sequence of light chain of CHIR-12.12:

### FIGURE 2B

DNA sequence of heavy chain of CHIR-12.12 (including introns):

5'aigyayiligggcigagctgggttttccttgttgciatilinayaggigloongtgtcaggtgongttgglggagtciggggg uggegiggtoongoetgggaggteetgagnetoteetgtgeagootetggatteaoottoaglagetatggeatgeaetgg greegeeaggereeaggeaaggggerggagtgggagttatateatatgaggaaaglaulagalaceatgeagacte cgignagegocgaticaccatctccayagacaattooaagatcaogotgtatctgoaaalyaacagcclcagaactgagga cucggotgtgtattactgtgogagagalgtgggtalagcagcacctgggcotgactactggtgcagggaaccctggtca gyccclgggctgcctggtcaaggactacttccccgauccggigacggtgtogtggaacteaggegeectgaccagegge grgoacaccttccoggotgtoctacagloctcugguctctactcoctcagcagogtggtgaccglgccclccugcagclrgg geacceagacciacaicigcaacylyaxicacaagcccagcaacaccaaggiggacaagayyligigigagaggccag cacagggaggaggggtctgclggaagcoaggctoagogotootgcctggaagoatocoggclalgoaglccoagtoo aggcoagcaaggcaggcocogiciyooicttoaccoggaggcotctgcccgcccaclcalgclcagggagaggggtctt etggettttleeceaggetetaggeaggeaeaggetaggtgeecetaacceaggeetgeacacaaaaggggeaggtgetg <u>roloicages and an acceptance and acceptance and acceptance and acceptance ac</u> oooteagotegyaeaooliciciccicceagaticcagtaacteccaatettciclelycagageccaaatettgtgacaaaae tercacatgecenceylycoungglaagecagecenggeeteyeeetecayeleaaggegggacaggtgeeetagagta geetgeateengggacaggeecengeegggigetgacaegteeaceteeatelelteelengeaeetgaacteetggggg gucogioagicitectottooccoonanaceeuaggaeneertentgateteeeggaeeeelguggteaentgegtggtggt <u>ggaegigagecaegaagaeeetgaggteaagtteaaelgglaegiggaegegtggagtgealaatgeeaagaeaaag</u> ccgcgggaggagcagtacaacagcacgtaccgtgtggtcagcgtcclcaccgtcotgcaccaggaotggotgaalggou aggagiaonngigconggtcioconoanagcoctcooagccccnicgagaaaaccatctccaaagccanaggiggsc ctgreetqeagggeagooccgagaacoaoaggtgtacaccctgccccalcaggggaggatgacaagauccugg leageetgaeetgeetggteaaaggelletateeeagegaeategeegtggagtgggqqqaatagageageeggagaa cnactacaaguccacgcclcccgtgctggactccgacggolocliclcctctatagcaagclcaccgtggacaagagcag glygongonggggnnogtetletentgeleegignigentgaggetetgenennesnetnenegengnngnageteteeet gleleegggtaaatga3'

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# FIGURE 3A

CHIR-5.9 light chain:

leaders

MALLAQLLGLLMLWVPGBBG

variable:

AIVMTQPPLSSPVTLGQPASISCRSSQSLVHSDGNTYLNWLQQRFGQPPRLLIYKFF RRLSGVPDRFSGBGAGTDFTLKISRVEAEDVGVYYCMQVTQFPHTFGQGTRLEIK

constant:

RTVAAPSVFIFPFSDEQLKSGTASVVCLLNNFYPREAKVQWKVDNALQSGNSQESVT BQDSKDSTYSLSSTLTLSKADYEKHKVYACEVTHQGLSSFVTKSFNRGEC

#### FIGURE 3B

CHIR-5.9 heavy chain:

leader:

**ADVEQUIVALLILATEEM** 

variable:

EVQLVQSGAEVKRPGESLKISCKGSGYSFTSYWIGWVRQMPGKGLEWMGIIYPGDSD TRYSPSFQGQVTISADKSISTAYLQWSSLKASDTAMYYCARGTAAGRDYYYYYGMDV WGQGTTVTVBS

constant:

ASTROPEVPLAPASKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QBSGLYSLSSVVTVPSSSLGTQTYICNVNHKPENTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISRTPEVTCVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQYYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSLSPGK

alternative constant region:

ASTROPSVFPLAPSSKSTSGGTAALGCLVKDYFPEPVTVSWNSGALTSGVHTFPAVL QBSGLYSLSSVVTVPSSSLGTQTYICNVNHKPSNTKVDKRVEPKSCDKTHTCPPCPA PELLGGPSVFLFPPKPKDTLMISETPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAK TKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPRE PQVYTLPPSREEMTKNGVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDG SFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

# FIGURE 4A

#### Coding sequence for short isoform of human CD40:

- 1 alugitogio igcotolgoa gigogiooto tggggetget tgotgacego tgtocateon
- 61 gaaccaccca ctgcatgcag agasasacag tacctastas acagtcagtg ctgtictitg
- 121 teccaeccae gacagaaact geteagteac tecacagagt teacleanac genatecti
- 181 cottgoggig anagogaatt cotagacaco tggaacagag agacacactg ccaccagcac
- 241 азаластвов ассоляест авиветов втоляемия авиветов запасных
- 301 accatetgea cetgtgaaga aggetggeac tgiacgagig aggeotgiga gagotgtgto
- 361 otgeaccycl calyoteycc oggottiggg gteaageaga ttgetacagg agttictgat
- 421 accatetgey agecetyeec agleggette tielecaatg tgicatetge titegaaaaa
- 481 tgtcaccett ggacaaggie eccaggaicy gelgagagee etggiggiga tooccateat
- 541 ottogggato otgtttgooa tootottggt gotggtottt atcaaaaagg tggooaagaa
- 601 gecaaceaat aa

#### FIGURE 4B

#### Encoded short isoform of human CD40:

- I myripiqcvi wgciliavhp eppiacroką ylinsqoosi oqpgqkivsd cteffeteol
- 61 pegeselldt warethehqh kycdpalgir vagkgtsetd tietceegwh ciseacescv
- 121 lhrscspgfg vkqiatgvsd ticepepvgf fsnvssafek chpwtrspgs aespggdphh
- 181 irdpvchpig aglyqkggqe anq

# FIGURE 4C

### Coding sequence for long isoform of human CD40;

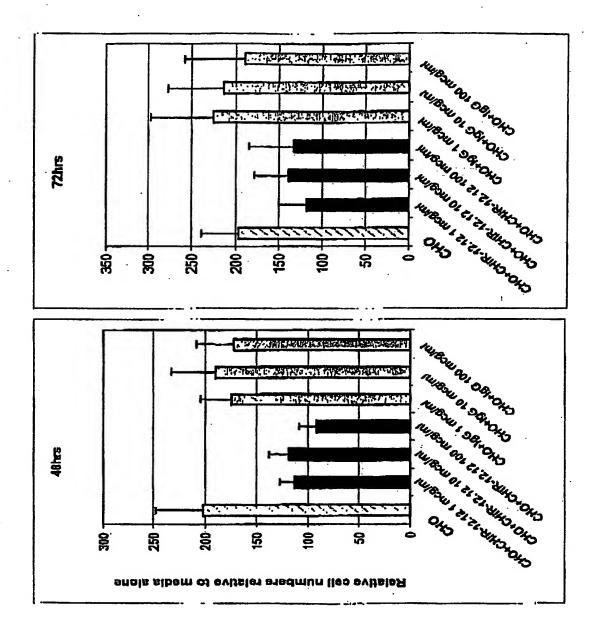
- alggitogic tycciciges gigegiecic tggggetget tgetgaeege tgtecatees
- 61 ganccaccca otgoatgong agasassong tacotastas songtongty otgitotity
- 121 tgccagoong gacaganact ggtgagtgac tgcacagagt tcactganac ggantgcctt
- 241 munimotycy accorance agggettogg groageaga agggeacote agasacagae
- 301 accatetgea cetgigaaga aggetggeae tgtacgagtg aggeetgtga gagetgtgte
- 361 ctgcaccgct catgctcgcc cggctltggg gtoaagcaga ttgctacagg ggtttctgat
- 421 accatotgog agcoctgoco agtoggotto liciconalg igicalcigo iticganana
- 481 tgtcaccett ggacaagetg tgagaccaaa gacetggttg tgenscagge aggeacaaac
- 341 auguctgatg tigtcigtgg tocccaggat oggotgagag cootggtggt gatocccato
- 601 michtogga iccigilige entocicity greetegtot tratenana geregeenag
- 661 magiciaacca alaaggeeee ceaececang caggaacece aggagatens titlecegae
- 721 gutetteetg geteeancae tgetgeteea gtgeaggaga etttacatgg atgeeaaceg
- 781 gteacceage aggategeaa agagagiege alcleagtge aggagagaea giga

### FIGURE 4D

# Encoded long isoform of human CD40:

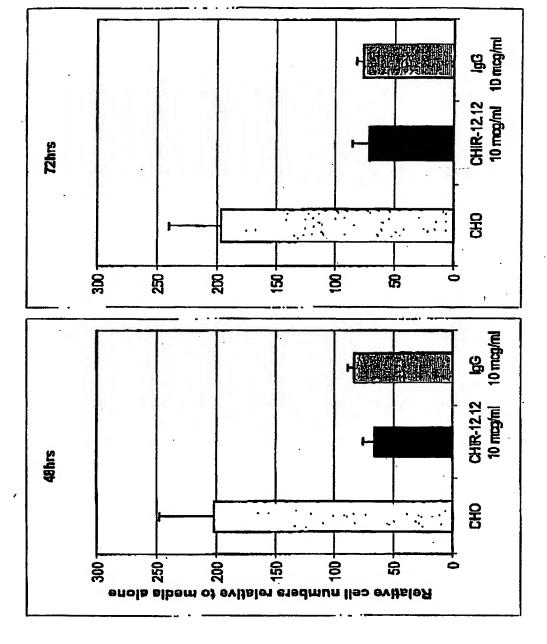
- 1 myrlplqcvl wgclltavhp epptacreką ylinsqccsl capgaklysd cteftetecl
- 61 pegesefldt wnrethehqh kycdpnigir vqqkgiseld tictceegwh ctscacescv
- 121 lhrscspgfg vkqiatgvsd ticepcpvgf fsnvssafek chpwtscotk dlvvqqagtn
- 181 ktdvvogpqd riralvvipi ifgilfaill vivlikkvak kptnkaphpk qepqeinfpd
- 241 dipgentaap vqetihgcqp viqedgkesr isvqerq





**GURE SA** 

FIGURE



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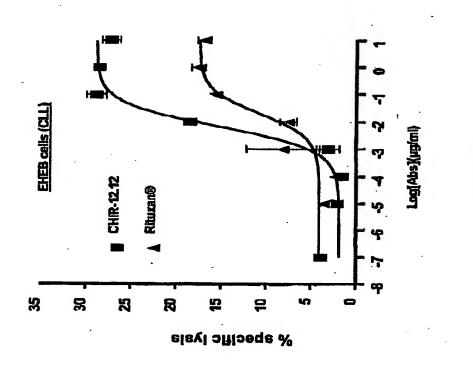
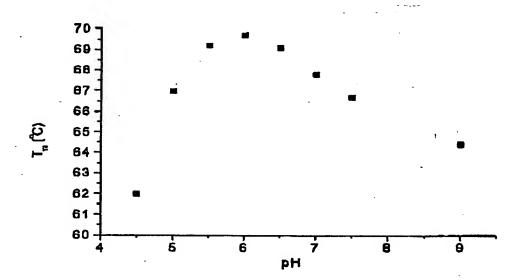


FIGURE 8



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